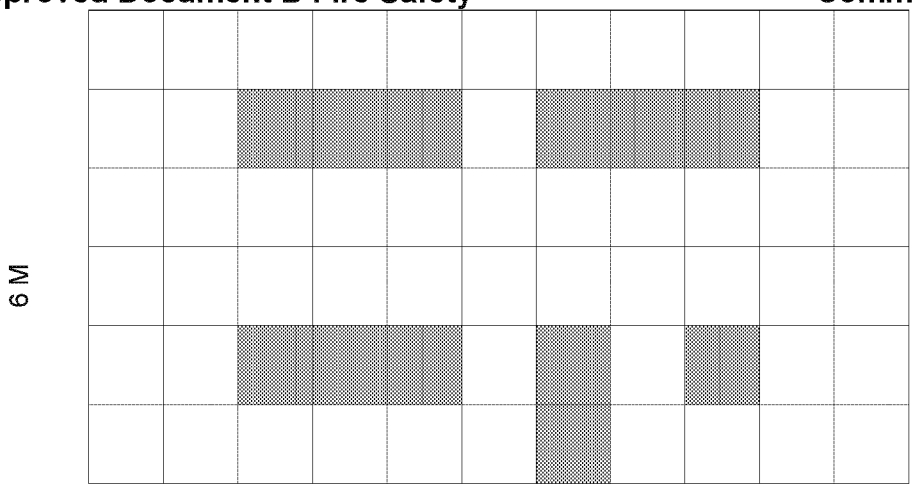

General Data

The dwellinghouse is two storey (grid 1m)
The side dimensions are 11m long and 6m high
The total area of unprotected area is $3m^2 + 3m^2 + 3m^2 + 2m^2 + 1m^2 = 12\ m^2$

Using Method 1 Small residential (in accordance with current ADB)

The total area of unprotected areas is $12m^2$ therefore the minimum distance between the side of the dwellinghouse and the relevant boundary is 2m (in accordance with Diagram 46)

Boundary distance 2m

Using Method 2 Other buildings or compartments (in accordance with current ADB)

The total area of unprotected areas is $12m^2$
The area of the side of the building is (11 x 6) $66m^2$
The total percentage of unprotected area is 12/66 X 100 = 18.18% say 18%
From Table 16 the minimum distance between the side of the building and the relevant boundary for residential PG is 2.25m (by interpolation)

Boundary distance 2.25m

Using Method 2 Other buildings or compartments (using the clarification of proposed 'note c')

The total area of unprotected areas is $12m^2$
The area of the actual (smallest) rectangle that encloses the unprotected areas (5 x 7) = $35m^2$
The total percentage of unprotected area is 12/35 x 100 = 34.28% say 34%
From Table 16 for Residential the minimum distance between the side of the building is and the relevant boundary is 4.25m (by interpolation)

Boundary distance 4.2m

Alternative approach using Appendix A of BR 187

The total area of unprotected areas is $12m^2$
The dimensions of the actual (smallest) rectangle that encloses the unprotected areas is 5m high and 7m wide
To find the distance from boundary using the formula in Appendix A to BR187 $d = g \times \sqrt{}$ (uwh)
d = distance from relevant boundary
u = proportion of the enclosing rectangle that is unprotected 12/35 x 100 = 34% or 0.34
w = the width of the enclosing rectangle (7m)
h = the height of the enclosing rectangle (5m)
g = factor from BR187 Table 4 (for w/(uh) which is 7/0.34x5 = 4.1 therefore g = 0.61 from table)
$d = 0.61 \times \sqrt{(0.34 \times 7 \times 5)}$
d = 2.1

Boundary distance 2.1m